

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
6 May 2005 (06.05.2005)

PCT

(10) International Publication Number
WO 2005/041255 A2

(51) International Patent Classification⁷:

H01L

(21) International Application Number:

PCT/US2004/025231

(22) International Filing Date: 4 August 2004 (04.08.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/492,606 4 August 2003 (04.08.2003) US

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

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WO 2005/041255 A2

(54) Title: COATING COMPOSITION OPTIMIZATION FOR VIA FILL AND PHOTOLITHOGRAPHY APPLICATIONS AND METHODS OF PREPARATION THEREOF

(57) Abstract: A sacrificial coating material includes: at least one inorganic compound, and at least one material modification agent, wherein the sacrificial coating material is dissolvable in an alkaline-based chemistry or a fluorine-based chemistry. A method of producing a sacrificial coating material includes: providing at least one inorganic compound, providing at least one material modification agent, combining the at least one inorganic compound with the at least one material modification agent to form the sacrificial coating material, wherein the sacrificial coating material is dissolvable in an alkaline-based chemistry or a fluorine-based